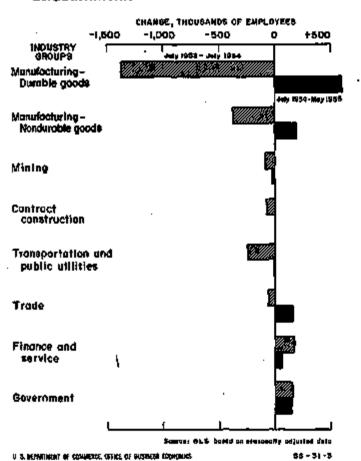
Patterns of Recent Employment Changes—Area and National

HE DECLINE and subsequent recovery in business activity in the United States after mid-1953 were of moderate proportions for the country as a whole. The character of the business swing was such, however, as to produce fairly pronounced differences in experience among product markets, industries, and areas. Various aspects of this divergence

Changes in the Number of Wage and Salary Employees in Nonagricultural **Establishments**



in patterns have been reviewed in previous issues of the SURVEY. Extension of this examination to the differential experience of local market areas is made possible by information covering employment in nonagricultural catablishments in principal metropolitan areas which is assembled by the Bureaus of Labor Statistics and of Employment Security of the Department of Labor.

Since, nationally, employment changes were heavily concentrated in a few major industrial sectors, it was natural that local areas relying heavily upon these industries for employment tended to have the most volatile employment experience. These national industry trends can be summarized quite quickly.

Total wage and salary employment in nonagricultural establishments, seasonally adjusted, fell from a peak of 49.9 million in July 1953 to a low of 48.0 million in August and September 1954, or by 4 percent. The subsequent advance had brought the seasonally adjusted total back

to 49.2 million by May 1955.

The business decline centered in the sharp swing in inventory investment, particularly for durable goods, in the cutback in defense purchases, and in some decline in the demand for consumer and producer durables. Thus, the employment impact was sharpest in the durable-goods manufacturing industries. At its greatest, the reduction there amounted to 1.4 million or 13 percent. Pronounced relative employment reductions were also experienced on the railroads and in coal mining, while nondurable-goods manufacturing and Federal Government civilian employment were less affected. Employment in trade, finance, and service, in contract construction, and in public utilities and transportation, other than the railroads, was little reduced or even increased. State and local government employment advanced steadily.

Largest fluctuation in durable goods centers

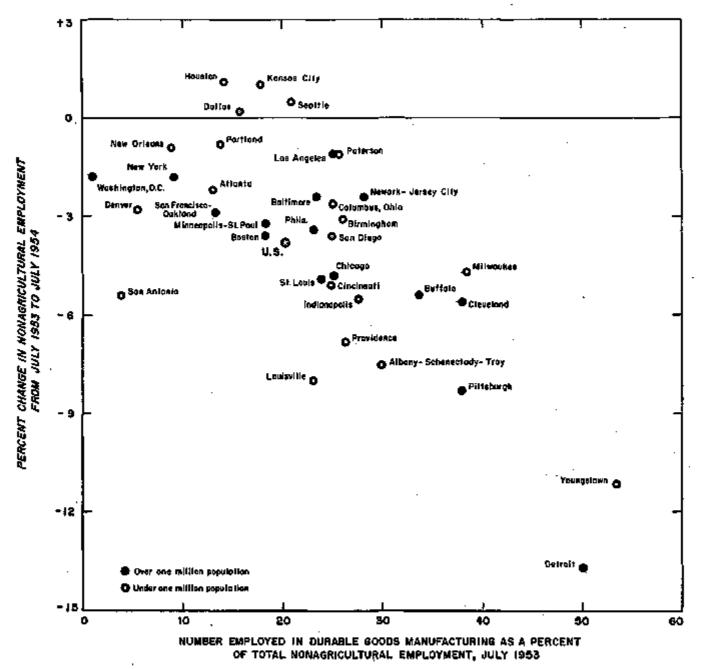
The durable-goods manufacturing industries alone experi-enced an employment decline equal to three-fourths of the reduction in the total, and in the subsequent recovery thus far, these industries have accounted for three-fifths of the increase. It is not surprising, therefore, to find that despite the wide variety of local influences and the presence of numerous exceptions in particular localities, there was a very noticeable tendency in the 1953-55 period for areas heavily dependent upon durable-goods manufacturing to experience the widest fluctuations in total nonagricultural employment.

This is illustrated, for the downward phase of the move-ment, in the accompanying chart. For the 35 metropolitan areas with the largest 1950 population, this chart relates the July 1953 to July 1954 percentage change in total nonagricultural employment to the percentage that employment in durable-goods manufacturing comprised of total nonagricultural employment as of July 1953. The time period used is as close to that of the maximum national employment decline as could be selected and at the same time avoids comparisons which might be affected by different seasonal influences.

The chart illustrates a substantial variation in employment experience over this period, with changes ranging from a 1-percent increase in Houston to a 14-percent reduction in

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Changes in Nonagricultural Employment, July 1953 - July 1954, Related to the Proportion Employed in Durable Goods Manufacturing in 35 Largest U. S. Labor Market Areas



N. S. DEMONSULENT OF COMMENCE, OFFICE OF BUSINESS ECONOMICS

88-31-4

Detroit. Half of these major areas experienced employment reductions within the narrow range of 2 to 5% percent (as compared with a national change of 3.8 percent), with one-fourth showing reductions of more than 5% percent and one-fourth reductions of less than 2 percent or actual increases.

fourth reductions of less than 2 percent or actual increases.

Also apparent is the general tendency, already mentioned, for relatively large 1953-54 employment reductions to be associated with some exceptions with a heavy concentration of durable-goods production. Thus, of the one-fourth of the areas with the largest employment reductions, all except Louisville had greater-than-average concentrations of em-

ployment in the durable-goods manufacturing industries; 7 of these 9 areas with the sharpest employment declines are also among the fourth of the cities with the highest proportions of employment in durable-goods manufacturing. Among the one-fourth of the 35 areas which experienced the smallest employment declines, all but Los Angeles had less-than-average concentrations of employment in durable-goods manufacturing (although they were not heavily concentrated in the lowest quarter according to the durable goods ranking).

Thus it appears that the relatively unfavorable 1953-54 experience of such major hard goods centers as Detroit and

Pittsburgh, which was widely noted last year, was fairly typical of such areas. Toward the other extreme, employment in the vast New York-Northeastern New Jersey metropolitan area declined only 1.9 percent during the downswing. In the 9-county New York labor market only 9 percent of the nonagricultural wage and salary workers derived their income from durable-goods production in July 1953. This proportion was about the same as that for New Orleans (where employment fell less than 1 percent) and much below those for the remainder of the 35 large areas with the exception of 3 principal centers of Federal employment which are mentioned below.

Fast-growing areas less affected in 1953-54

Numerous areas, nevertheless, deviated from this pattern. One cause of systematic deviation was the long-term growth factor. This may be appraised crudely for the different areas by examination of the percentage change in total nonagricultural employment from 1940 to 1953, shown in the table.

Among the 10 large market areas with the most favorable 1953-54 employment experience, Houston, Portland, Dallas, Senttle, Kansas City, New Orleans, and Los Angeles, had experienced employment expansion since 1940 much above the average, and only Paterson had experienced a 1940-53 increase, well below the median of all the 35 areas. Providence, Youngstown, and Albany-Schenectady-Troy were among the localities that experienced 1953-54 employment losses more than double the national average, all metropolitan areas of relatively slow longer-term growth.

Moreover, some tendency existed for the areas with rela-

tively strong longer-term growth to have bad a more favorable 1953-54 employment experience, and for the slower growing cities to have had a less-favorable one, than would be indicated by the importance of durable-goods manufacturing alone. It is apparently for this reason that when account is taken of the degree of concentration of employment in durable-goods manufacturing, there was a pronounced tend-ency for the local areas with the most favorable 1953-54 employment experience to be concentrated in the rapidly growing Western and Southern regions of the country. Also to be noted is that, among the largest major metropolitan areas, those in which March 1955 employment exceeded that of March 1953—Los Angeles, Atlanta, Houston, Dallas, and Denver—all were in these regions. The only exceptions were two aircraft centers: Columbus, Ohio; and the Nassau-Suffolk subarea.

Data for the smaller metropolitan areas listed in the table also indicate a correspondence between both the importance of durable-goods manufacturing and the extent of 1940-53 employment expansion, on the one hand, and the change in employment experienced from July 1953 to July 1954, on the other. The range of employment experience was greater and substantial deviations from the pattern were more frequent than in the larger, and usually more diversified,

population centers.1

Influence of other industrial changes

It is apparent, however, that in all size groups other important factors were also at work in determining the employment experience of individual areas. These may be

thought of as being of two types.

First, it is clear that a single split between durable-goods manufacturing and all other industries is not adequate to represent the influence of differential employment experience among industries even nationally. Not all durable-goods manufacturing industries were equally affected; employment in aircraft and parts production, for example, in July 1954 was only slightly below July 1953. Actual increases in aircraft employment in Los Angeles, which has

one-fourth of the total employment in that industry, and in the Nassau-Suffolk and Paterson sectors of the New York-Northeastern New Jersey area were influential in the favorable employment experience of those two metropolitan areas at that time. Strength of aircraft employment in that period was also a stabilizing element in Wichita, Tulsa, and Hartford. In Rochester, N. Y., about 40 percent of employees are engaged in the instrument and photographic equipment industry, which had a relatively stable employment experience.

Similarly, as already noted, pronounced employment reductions occurred in certain industrial sectors outside of durable-goods manufacturing, although the remaining ag-gregate of nonagricultural employment was well maintained.

The lowering of Federal Government employment was responsible for nonagricultural employment reductions which approximated the national average in Washington, Denver, and San Antonio (to mention only the larger areas) despite the slight importance of durable-goods manufacturing in these centers of Government employment.

Reduced operations in coal mining were responsible for sharp employment declines in a number of communities, including several in Pennsylvania and West Virginia, and the decline in railroad employment was similarly of importance in particular localities. Among the nondurable goods manufacturing industries, most of which were fairly stable, employment in textiles was down sharply and had an important impact upon employment in most textile centers.

Wide area divergences in separate industries

The other major cause of pronounced variation in local employment experienced is the simple fact that, for a great variety of reasons, employment changes even within the same industry vary widely among communities. The chart on

page 18 illustrates this point.

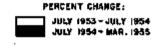
For four principal manufacturing industries, percentage changes in employment from July 1953 to July 1954, and from July 1954 to March 1955, are shown for the major production centers. Three of the four—steel, automobiles, and textiles experienced pronounced employment fluctuations nationally during these time intervals, while nircraft employment nationally was down but little in the first period, and somewhat more in the second. It will be noted that the charts terminate with March, the latest date for which the data are available, and hence do not reflect the further improvement which has since taken place in employment nationally since that date.

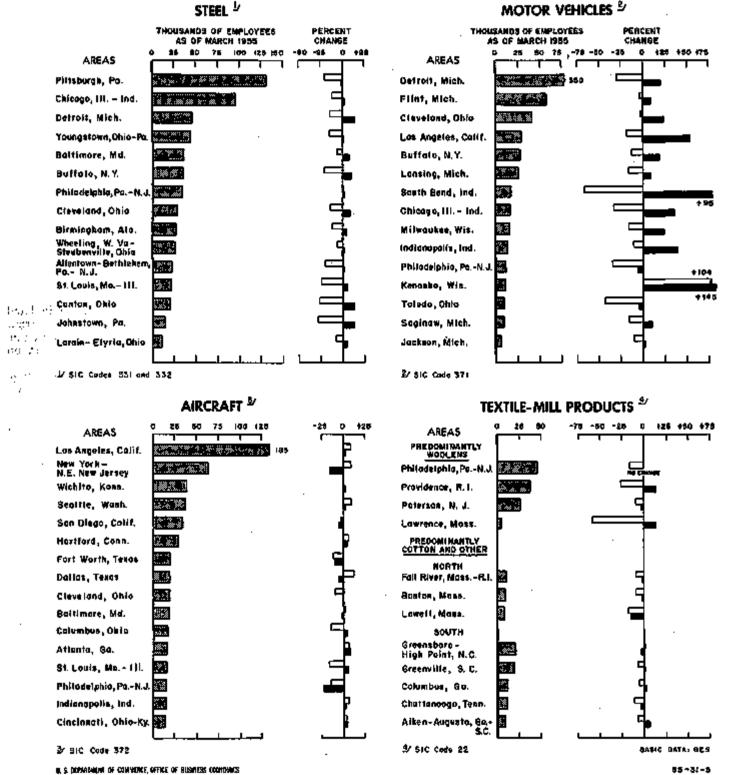
Since the changes shown on the charts are based on data for single months at the terminations of the periods utilized they are influenced by random factors affecting individual localities in these particular months and may not be entirely representative of the experience of each of the areas shown. In addition, the differential experience of the communities may in part reflect different national production trends for specialized products within the broader industry groups. For example, the maintenance in 1953-54 of steel employment in Wheeling-Steubenville was apparently associated with the strength of demand for oil-country tubular goods.

The range of local market experience shown in the charts is so broad, however, as to make it strikingly clear that differences in employment experience among metropolitan areas were far from resulting exclusively from differences

^{1.} A correlation based on preliminary data, for the 33 largest areas exclusive of Washington, Denver, and San Autonia, which were emitted because to the heavy concentration of Coverament employment, yielded a coefficient of correlation of 0.09 hand on the importance of durable goods alone, and of 0.75 when the socialar employment frond was cided. For 31 of the next 35 areas (with 4 emitted for special reasons) the corresponding coefficients were 0.43 and 0.70; and to 18 of the 33 aimsfest areas remaining, they were 0.49 and 0.61. Because of the judgment layedwall is the specifien of the fresh since question as to whether the beste relationship with these factors is linear, the coefficients can be used only as a rough indication of the degree of relationship.

Wage and Salary Employees in Four Manufacturing Industries by Major Production Centers





in the industrial composition of employment in the various areas; factors specifically affecting employment in the in-

dividual locality were also of great importance.

Specific illustrations can be readily drawn also from other industries. In electronics, for example, the strength of 1954 employment in Beltimore and Boston, both growing centers of electronics production, contrasted with sharp employment declines in the industry in most other major areas, and was a factor in the maintenance of total employment last year

in these areas. But it is unnecessary to belabor the point. It is evident that specific management decisions by both employing organizations and, with respect to order placement, their customers, have a major impact upon local area employment. These decisions arise from a host of considerations; by their nature they defy generalization. Any attempt to trace their relationship to the employment changes experienced by individual communities is beyond the scope of this article.

Wage and Salary Workers in Nonagricultural Industries (except Domestle Service), March-April 1940, March-April 1956, March 1953, 1954, and 1955, for Selected Metropolitan Areas

| <u> </u> | Popu | hellori | Wago and solary workers | | | | | | | | | Braphyment of waman | | Parcent | | Employment in detable | |
|--|--|---|--|---|--|---|---|----------------------------------|---|---|--|--|---------------------------------|------------------------------|---|---|--|
| Standard zustrepolitan erese | <u> </u> | · · | Number in thousands Percent change | | | | | | | Percent of total | | 1940~55 | | Percent of Letal | | | |
| | 1960 (Vhouzi.) | Pero. obsange | Marol | i-April | Γ | h Margh 1 | l | 1040- 58 † | July* : (933-64 | Moreh | | <u>. </u> | | | | <u> </u> | |
| | | 1040-60 | 1940 | 1950 | March 1953 | | March 1065 | | | | April- Murch 1940 | March 1955 | ₩ont- | Mon | 쪻 | March 1855 | |
| New York-Northeastern, N. J. | | H)L.7 | 3,441 | 4,637 | a, 299. o | 6, 212.8 | i, 167. G | 40 | -10 | -9,5 | 20.1 | 32.7 | 64 | 20 | 13.7 | 12.7 | |
| Now York Arch (BES) 1. Nasson-Suffelk Counties. Nowark-Jersey City (NJ) Newark-Jersey City (BES) 1. Peterson (NJ) (BES) 1. Perith Amboy (NJ) (BES) 1. | 0,500 940 1,961 1,744 1,040 | 9.8 67.1 7.4 | 2, 008 1.50 620 535 296 | 3,343 293 720 | 4,867,0 971,0 830,2 772,4 382,4 | 3, 007, 0 367, 0 806, 6 780, 0 340, 0 100, 0 | 3,900.9 284.4 787.9 747.7 345.4 | 52 81 35 57 22 00 | -L8 -&6 -&6 -2 4 -1.1 -&1 | -2.9 4.7 8.9 -1.8 | 29.3 22.7 27.3 29.5 20.4 | 33.8 32.7 31.2 30.7 | 09 J30 55 27 73 | 41 78 37 13 50 | 9.3 24.0 28.1 26.7 | 8.5 27.6 90.3 25.0 | |
| Per(h Amboy (NJ) (HES)). Oblongo (IliInd.) (BES)). Los Angeles (Osly). Philodophia (PaN. J.) Deimit (Mirh.). | 243 5,496 5,032 4,368 3,671 3,016 | 18.9 12.8 40.8 14.7 26.0 | 1, 605 1, 692 825 943 703 | 2,110 1,960 1,397 1,238 1,073 | 107. 3 2,560. 7 2,335. 0 1,820. 0 1,406.3 1,892.3 | 2,454.3 2,209.1 1,821.8 2,414.4 1,268.6 | 345.4 104.3 2,447.0 2,287.0 1,874.3 1,383.2 1,302.0 | 90 67 121 40 82 | -6.1 -4.6 -4.5 -1.1 -2.4 -13.7 | -1.8 -4.3 -2.0 -2.0 -1.1 -0.5 | 20.2 27.6 27.7 26.0 27.0 20.8 | 31.1 30.5 32.0 31.3 27.1 | 78 60 173 64 22 | 37 111 41 87 | 33.3 25.2 25.2 25.2 60.0 | 25.0 25.0 25.6 90.6 48.3 | |
| Boston (Mass.) Doston (Mass.) (BES)*. Bus Vrancisco Cakkund (Calif.) Pitteburgh (Pa.) St. Louis (MoIII.) Gavoland (Ohio) | | 8.8 63.3 6.3 17.4 18.6 | 084 472 802 483 780 | 612 792 737 726 484 551 | 968. 1 945. 6 896. 4 835. 8 731. 7 671. 2 | 943, 5 930, 0 960, 4 780, 7 700, 2 659, 1 | 938. 9 920. 4 884.0 771. 5 640. 3 | 40 00 40 00 68 | -16 -31 -28 -82 -49 -56 | -3, 2 -2. 7 -3, 6 -7, 6 -4, 4 | 31.9 25.7 10.8 24.8 25.9 | 30.0 32.0 38.2 31.4 | 08 131 75 89 86 | 35 01 28 51 51 | 18.3 13.3 37.8 29.8 37.0 | 16.8 12.0 33.9 21.4 | |
| Washington (D. CMdVa.) Baltimore (Md.) Minnespails-St. Paul (Minn.) Bufful (N. Y.) Cincinnati (Oue-Ky.) | ايمدا | 51,3 93,5 19,7 13,6 14,9 | 349 380 278 270 220 | 549 458 406 878 818 | #20.6 556.7 478.6 448.0 388.7 | 604. 0 661. 2 674. 2 634. 4 379. 4 | 610. 7 548. 6 409. 4 427. 7 378. 3 | 81 89 72 80 81 | -1.8 -24 -3.2 -5.1 -6.1 | -2.0 -1.5 -1.9 -4.5 -1.9 | 31.7 24.8 30.7 23.5 26.2 | 37. d 32. 6 38. 1 98. 1 29. 6 | 100 105 09 78 75 | 61 45 70 46 | 1-2 23.5 IR.4 33.5 24.0 | 3,3 21,8 15,8 32,8 24,9 | |
| Milwankee (Wis.) Konasa Olty (MoKons.). Houston (Tax.) Providence (H. LMess.). Scottle (Wesh.) | 871 814 807 737 733 | 18.6 18.6 52.6 8.9 46.2 | 233 203 167 238 160 | 340 200 275 201 238 | 381.0 378.8 308.3 300.7 272.0 | 303, 2 307, 5 303, 8 278, 0 273, 1 | \$63, 6 \$53. [\$19. 7 \$27. 5 \$79. 9 | 85 80 20 82 | -4.7 1.0 1.1 -6.8 0.5 | -4.6 -6.2 -4.4 -2.7 | 20, 5 28, 2 20, 8 32, 8 25, 8 | 29. I 29. 4 28. 3 59. 5 35. 8 | 71 81 178 64 160 | 67 7) 54 62 | 38. 4 17. 8 14. 2 20. 4 21. 0 | 30.2 15.0 12.3 27.4 21.0 | |
| Fortland (Oreg., Wogh.) Now Origins (Lth.) Atlants (Os.) Dallas (Tex.) Louisville (Ky., Ind.) | 072 016 | 40. 0 24. J 29. 7 64. 8 27. 8 | 136 181 147 118 129 | 919 231 225 195 | 228.0 270.8 201.8 200.8 231.3 | 290.6 271.6 215.4 202.6 210.9 | 231.3 254.6 306.5 203.1 223.2 | 76 80 100 121 79 | -65 -65 -22 -63 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 26, 2 25, 4 37, 6 29, 0 26, 1 | 30. 1 97, 6 32, 9 34, 4 24, 9 | 94 93 148 108 125 | \$1 00 110 40 | 13.8 8.0 18.1 16.8 23.1 | 13.4 7.6 15.1 16.2 25.2 | |
| Denver (Solo.) Dirmingham (Ala.) Sea Diogo (Culat.) Indimapolis (Ind.). Youngstown (Onio-Pa.). | 564 559 557 663 529 | 38. 3 21. 5 92. 4 19. 7 11. 0 | 111 119 80 14 0 123 | 184 172 133 205 177 | 225.0 193.0 194.5 281.7 106.8 | 925. 7 196. 6 179. 8 200. 9 188. 5 | 229, 8 189, 8 174, 7 270, 1 183, 1 | 104 67 172 88 88 | -2.8 -3.1 -3.6 -1.1 | -1.7 -8.9 -4.1 -7.0 | 27.8 10.0 20.0 27.6 18.5 | 39. 8 24. 1 32. 4 31. 7 20. 7 | 107 128 256 116 140 | 73 46 86 74 29 | 5.6 28.1 25.0 27.6 63.4 | 5,4 25.9 24.3 24.9 47,7 | |
| Albany-Schonestudy-Troy (N. Y.). Odombus (Ohio). San Antonia (Tes.). Migral (Fin.). Rochester (N. Y.). | 816 603 800 498 488 | 10.5 20.5 48.0 84.9 11.3 | 141 114 87 70 130 | 184 175 172 156 179 | 221. 4 227. 0 102. 7 203. 3 209. 7 | 200.8 227.0 160.8 210.0 212.0 | 107. 8 239. 9 163. 0 234. 0 209. 7 | 55 190 87 156 64 | -7.5 -2.0 -6.4 -8.3 -8.6 | -18.8 -6.4 16.6 | 29. 0 28. 0 21. 2 35. 6 30. 7 | 30.0 36.4 32.7 32.7 86.1 | 48 165 173 292 78 | 27 50 61 178 42 | 20.9 25.1 8.8 4.3 41.0 | 24.8 21.7 4.0 4.3 \$9.4 | |
| Memphis (Tenn.). Daylon (Ohin). Sasi Darmedino (Colil.). Noriolis-Portamonth (Va.). Allentown-Both)chem-Easton (PaN. J.). | 482 457 462 446 488 | 34. 7 38. D 69. 4 72. 3 19. 4 | 96 99 53 81 119 | 160 160 186 110 167 | 172. 6 206. 0 129. 7 140. 6 170. 1 | 100, 2 202, 6 131, 0 144, 6 167, 7 | 163. 6 205. 0 132. 0 144. 2 168. 4 | 76 108 146 84 48 | -43 -45 -45 | +;1 0.85 144 144 | 24.1 24.3 31.4 10.1 27.0 | 30.3 28.0 30.0 31.7 30.2 | 112 147 200 246 68 | 56 86 131 45 36 | . 36.0 4.2 8.7 8.1 | 12. L 35. 6 14. 5 16. 5 31. 2 | |
| Akron (Ohio). Tampa-St. Petersburg (Fig.) Springfield-Belyoke (Maza.) BES? Toledo (Ohio) (BES? Wilkes-Burro-Haziston (Pa.) | 410 400 407 304 302 | 20.6 50.4 11.7 14.0 -11.2 | 96 05 127 100 101 | 142 109 143 124 | 178.4 123.8 105.3 108.7 118.8 | 167. 9 128. 8 169. 7 163. 0 118. 2 | 10A 2 133.7 154.4 156.0 109.0 | 86 92 36 00 17 | -7.7 2.8 -0.3 -0.7 -9.7 | -7.4 -7.3 -8.1 -8.2 | 22. 7 27. 2 30. 0 29. 0 22. 8 | 29. 2 34. 7 33. 0 29. 4 48. 6 | 122 163 35 96 105 | 68 84 17 46 -21 | 18.6 2.0 20.6 30.6 6.4 | 10. 6 3. 7 24. 0 85. 1 5. 3 | |
| Omaha (NebrIowa) Port Worth (Toens) Horiford (Comm.) (BES) ³ Whouling-Stoubouville (W. VaOhio) Syracuse (N. Y.). | 308 301 858 854 342 | 12.7 00.2 21.1 -2.6 10.8 | 80 106 91 84 | 125 125 139 110 120 | 141.8 151.9 191.7 112.9 141.0 | 149. 0 15L 4 198. 6 108. 4 141. 1 | 141, 1 166, 4 196, 7 100, 8 138, 0 | 04 148 24 72 | -1.2 -1.6 -1.1 -4.8 -7.0 | -0.5 3.4 1.0 -3.1 -5.5 | 27. 8 20. 2 30. 4 19. 8 26. 8 | 36.6 20, 4 80, 0 94. L 31. 0 | 107 100 118 48 87 | 47 186 00 14 53 | 8.0 22.4 31.4 48.9 34.7 | 1.7 20.8 32.7 41.5 31.0 | |
| Knoaville (Team.). Phoenir (Aria.). Bishmond (Yo.). Okishoma Oky (Okha). Ohorieston (W. Ya.) | 337 382 328 828 322 | 37.0 78.2 24.7 33.8 10.0 | 00 33 80 64 70 | 96 79 123 101 98 | 114.0 98.0 140.5 130.2 86.8 | 115.0 95.7 148.7 184.2 91.6 | 117.8 104.6 140.2 184.5 80.7 | 811 811 881 881 | 3.9 1.2 -2.1 -2.3 -0.8 | 3 3 -0 2 -2.7 -10.4 | 20. 2 24. 6 30. 4 27. 0 18. 6 | 27. 0 30. 8 34. 3 29. 9 23. 4 | 107 203 86 135 91 | 92 188 66 104 12 | 13.3 11.5 5.4 4.8 9.6 | 12.7 11.8 4.6 4.6 | |
| Noskvilis (Tenn.) Jecksanville (Fla.) Herisburg (Fla.) Johnstown (Fla.) San José (Cally.) | 322 384 292 201 290 | 20.1 44.7 16.0 -2.4 | 70 88 73 71 80 | 108 108 102 80 76 | 124.4 111.2 137.0 61.1 81.0 | 121.8 113.2 128.7 74.6 87.9 | 124. 4 116. 9 120. 2 72. 2 91. 6 | 77 91 88 14 116 | -2.6 5.1 -6.4 -14.5 5.8 | 4.2 -5.7 -11.0 14.2 | 28.3 22.7 27.6 14.4 26.6 | 35. 4 31. 3 35. 0 23. 8 31. 7 | 192 174 113 02 193 | 51 -0 129 | 10. 0 £ 1 14. 4 27. 5 14. 3 | 8.8 4.3 10.0 25.2 20.5 | |

Wage and Salary Workers in Nonagricultural Industries (except Domestic Service), March-April 1940, March-April 1950, March 1953 1954, and 1955, for Selected Metropolitan Areas—Continued

| Blandard motzopolitan orens | Population | | Wago and salary workers | | | | | | | | Employment of wereen | | Percent change | | Employment in durable goods mig. as | |
|--|---|---|---|---|---|--|--|---|--|---|---|--|-------------------------------------|---|---|---|
| | 1960 (Chous.) | Pero. change | Number in thousands Persons change | | | | | | n g ¢ | Percent of total | | 1910-56 | | Percent of total | | |
| | | | Morek | -April | March | Moreb | Mareh | 1010- | Jely • | March | April- Mareh | March | Wom- | | July | Moroh |
| | | 10-00-50 | TÉHÔ | 1960 | 1953 | L954 | 1066 | 637 | 1013 64 | 1003-65 | 1040 | 1965 | en ' | Men | LQÇĞ | 1066 |
| Ornad Rupkis (Mick.) Utico-Rome (N. Y.) Utico-Rome (N. Y.) Utico-Rome (N. Y.) Sacamento (Colk.) Fremo (Colk.) Worocater (Mass.) (BES)* Tucoma (Wask.) Salt Lake Oky (Utah) Filst (Mick.) Wilmington (Dol.) (BES)* New Haven (Conn.) (BES)* Ridgeport (Conn.) (BES)* Reading (Pa.) Reading (Pa.) Reading (Pa.) Reading (Pa.) Utico-Superior (MinnWis.) (BES)* Tales (Okh.) Day Moders (Iown) Treaten (N. I.) Wishita (Karasa) Ohroldic (N. C.) Mobila (Ala.) Spokame (Wash.) Spokame (Wash.) South Bead (Ind.) Little Rock (Ark.) Bohameth Fort Arthur (Tex.) | 277 276 276 276 276 271 308 205 208 | 18.00 0 0 1 0 7 5 2 18.00 0 0 1 0 7 5 2 18.00 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5785年37 98年465 57 67 67 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 5.85 10 10 10 10 10 10 10 10 10 10 10 10 10 | 107.0 1 97.0 2 120.0 0 112.2 8 100.2 2 113.0 0 112.2 8 113.0 0 113.0 1 120.0 8 120.0 8 | 104.57 112.14 113.48 114.15 115.00 117.16 115.00 117.16 115.00 117.16 116.00 117.16 116.00 117.16 116.00 117.16 116.00 117.16 116.00 117.16 116.00 11 | 108.3 1 4.6 7 7 7 0 107.4 8 17.5 8 7 18.6 9 18.6 7 19.6 8 7 18.6 9 18.6 9 19.6 8 7 18.6 9 18. | 634 637 63 64 64 64 64 64 64 64 64 64 64 64 64 64 | 07080 67181 52864 36887 22805 6 -1100 470 24 26925 1.6517 22865 6 -12864 1.6517 22864 1.6517 1 | 1.331-10 490389 022662 001-87 486589 022662 001-87 486589 022662 001-87 486589 022662 001-87 486589 001-87 48659 | 85430 23400 33124 04341 40575 1 80224 2344 23 25 25 11 11 11 11 11 11 11 11 11 11 11 11 11 | 32.1 34.2 4 1 1 32.2 32.3 34.5 2 32.3 4 1 2 32.3 34.5 2 32.3 4 1 3 3 3 3 3 4 1 5 3 3 3 3 4 1 5 3 3 3 3 4 1 5 3 3 3 3 3 4 1 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 100 Mas | 41 12 12 12 12 12 12 12 12 12 12 12 12 12 | 41.40 91.77 91.20 92.42 91.22 91.23 91.24 91.31 91.42 91.43 | 11.02 67 51 7 67 8 68 87 6 7 5 1 7 67 8 8 68 8 7 5 1 7 67 8 8 68 8 7 5 7 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 |
| Fransville (Ind.). Winston Salom (N. C.). Albuquerqus (N. Mer.). Phil River (Mass.). Lewrence (Mass.). | 169 144 146 137 | 22.7 13.5 108.0 1.0 | 45 37 38 14 0 4 | 65 61 53 61 | 83359 94 | 69.7 60.5 52.4 48.1 34.4 | 08. 4 61. 8 56. 4 47. 7 34. 2 | 88 276 276 - 19 | -14.6 -14.6 -1.0 -1.0 -14.6 | -17.8 2.0 4.0 -4.4 -14.5 | 20.1 20.1 20.1 40.9 85.8 | 20.0 20.0 20.0 20.0 40.0 10.0 | 90 908 77 282 10 —23 | 53 7-22 - 22 - 23 - 23 | 48.1 14.2 11.4 2.0 | 77.14.14.14.19.19.19.19.19.19.19.19.19.19.19.19.19. |

"Date for July 1943-July 1964 adjusted for industrial disputes involving 1,000 or more

*Data for July 1843-July 1864 adjusted for Industrial disputes involving 1,000 or more reviews.

15 opportuges calculated before 1946 and 1956 data were rounded.

1. New York-Markenters New Jessey, a standard materopolitan area, is not reported correctly by BLS or BES. The 4 labor markets which report to BES, however, substantially even the area, actually within 55 thousand workers, or 1 percent. Population is shown for the endre SMA, for the 5-county area comprising the New York labor market area as reported by BLS. Other data for the hoge 12 million population SMA represent a weighted 4-labor market area suntwary. Data on the comployment of women in March 1956 or New York Olty work not available and wave estimated by the Office of Business Boonomies on the basis of their proportion in nonagricultural employment in the 1956 consus.

2. The areas so noted the labor market areas and only 1958 and differ from the SMA. Data as population are generally given on SMA basis because of its ready availability for 1956. Differences in area definition are described below:

In the New York Steep serve, under both BES and BLS reporting, 4 towns are included in addition to the 5 towns comprising the SMA. Bethany, Chilford, Madison and North Branford, The Hereford area includes not only the SMA but also Canton, Rest Granby, Granby, and Bolton.

The Bridgepost area saids in the SMA the towns of Baston and Mearce.

The Springfield-Heigher SMA and Baston SMA are very different from the labor market aron as reported. Brookfon is someticed a separate inher market.

The Winduston trees, Deferrance, excludes Sajem samely, N. J., a part of the SMA.

The Chicago taker satisfy area includes Cook and DuPage consider, littings, and Lake County, Indians. The SMA, considerably larger in area, comprises 4 additional lillings.

The Deleta-Superiar labor market includes the city of Duluth and Douglas county, Wissonsia, but excludes the county of St. Louis county, Minesota.

The Thical labor market area includes not only Lipes county (the SMA), but also the inclusion townships of Ression in Wood county.

Nove.—Precise definitions of labor market areas are contained in the Directory of Imperiant Luber Market Areas, (in Edition July 1834, U. S. Department of Labor; standard materialism areas are defined in the list of SMA's published by the Hareau of the Budget, 1951 and revisions.

Sources: U. S. Department of Commerce, Bureau of the Comme (1940 and 1940) and Office of Business Economies; U. S. Department of Labor, Bureau of Employment Security and Bureau of Labor Statistics (1965-56).

Technical Notes

To indicate more folly the diversity of employment experience among localities, data have been assembled in the table for all labor market areas with a population of 225,000 or more in 1956, and 23 additional amolter areas. Some of the latter have been included in order to provide fuller acceptable expersed to the South, and some are illustrative of special situations of the latter have been included in order to provide fuller acceptable expersed to the South, and some are illustrative of special situations of the latter have been included in order to recept the latter have been included in an extension of labor for insury years.

The 1950 population, and total nonagricultant comployment as of the March-April common entering portions of 1940 and 1950 and es of March of 1953, 1954, and 1955 are alsown for each area, as is the importance of employment in durable goods manufacturing in March of 1952 and 1958. In addition, the proportion of formits of the proportion of the

shamore of the feet habor merket areas, which are based upon Duran of Labor Statistics and Bureau of Employment Security reports for 163-es and Bureau of Consus (into 164) and 1630, have been under an comparable as possible by adjustment of the cortier figures. The United States Consus of population of 1630 based the definitions of the cortier figures. The United States Consus of population of 1630 based the definitions of the rule were in demely papulated New England where area confines were established by towns, and in Virginia where large of the are independent and outside of county boundaries. The grantiard metropolition area is defined in the 1950 Consus which was based enour population density. The stouderd metropolition area is similar to the industrial area used upon population density. The stouderd metropolition area is similar to the industrial area used by the 1963 and 1047 Consusor of Manufactures.

It was necessary to convert the Consus data to a comparable basis in geographic overage. By an deling comparable employment data were developed for the carsus periods of 1940 and 1950 which would the in with the present area reporting of wage and solary employment by the BLS malipolitics area and BES labor market area reporting programs.

Method of conversion

Hethod of conversion.

In the Census of 1840, the total number of wage and salary workers was given for each sounty and city in the Visited States, by the latter lawns in New England, and for the lownships and beroughs of New Jersey. From this class-of-worker group, two subtractions were made—demostle service workers, and farm laborars and farm foremen. Estimates for geographic subdivisions for which descent workers duty were not available were made by applying the ratio of nonagricultural wage and salary workers to the population of the subdivision in proportion to that of the appropriate sounty. These data were then combined the SMA or IES labor market acts.

For 1960, Census data on a standard metropolitan area basis groutly facilitated the operation. For that year the tutal number of wage and salary workers was chalanced by adding Government wage and salary workers and then pri-

vate household workers (as they were remanded in 1800) and form inberers, (exespt unpaid family workers), and form foremen were remarded from the total as in 1940.

Data subsequent to 1900 were obtained where available from the Bareau of Lober Statistics, which covers about one found to the areas, and from the Bareau of Employment Scourity for the committing stees. Once was taken to see that the data were revised to the most correct symilable benchmarks from unemployment compensation data.

In order to the into current area employment sorice in these cases where BES labor market stees ediffer from the standard metropolitan area, mainly in New England and New Jorsey, conversion was also made to the BES labor market area besits. This was particularly designable because the breakdown of employment by sex is available only from BES data.

Differences in concept

In the data proported in this article, comms estimates obtained by the enumeration of individuals are made consistent, as far as possible, with the BES-BLS establishment or payroll action. Although conceptual differences between these two series are not considered significant enough toriously to impult the comparisons of employment changes by arong they should nevertheless be mentioned. These conceptual differences are:

(1) Date are by regidence of the compleyes in the propulation cersum and by location of establishment in the payroll estat. These are not generally inconsistent by area (i the standard motopolitam area is sufficiently broad in generally inconsistent by area (i the standard motopolitam area is sufficiently broad in generally inconsistent by area (i the standard motopolitam area is sufficiently broad in generally inconsistent by area (i the standard motopolitam area is sufficiently broad in generally inconsistent by area (i the standard motopolitam area districtly broad in generally significant of the standard in the manufacture of the standard in the manufacture districtly standard and in the standard propulation proportion.

In some cases submitted districtly has outsiripped the current metropolitan area definition, or the area was perhaps too restricted to begin with. For example, the indistagnois, Tropton, and Evansville dress in the table stow employment gales which have in outsiripped the indicated population rise ower the interested decade. In this respect to tablished may be helpful in reconsidering the area definition.

(2) In consistent a worker is listed only by his nrimony occupational or belightly experted the maltiple job holdler, a worker is listed only by his nrimony occupational or belightly experted above the standard proportion of the fall and 1940 Census with the 1945-35 establishment date, on the other hand, include all paying extra large standard proportion of the standard proportion of the fall of census with the 1945-35 establishment date, on the other hand, include all pa